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PROCUREMENT SECTION
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WATER SUPPLY OUTLOOK FOR OREGON

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY

and

STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above
in cooperation with other Federal, State and private organizations.

AS OF
JAN. 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



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WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JANUARY 8, 1972

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

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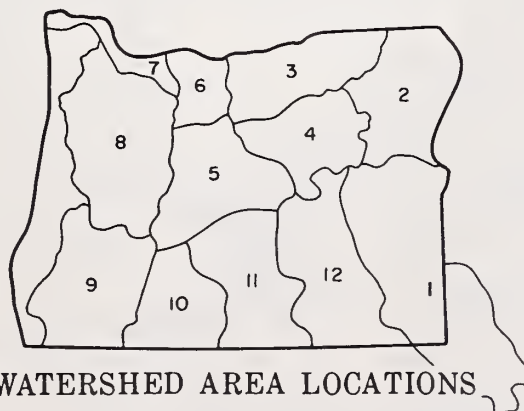
and

HOWARD M. VANCE, Assistant Snow Survey Supervisor

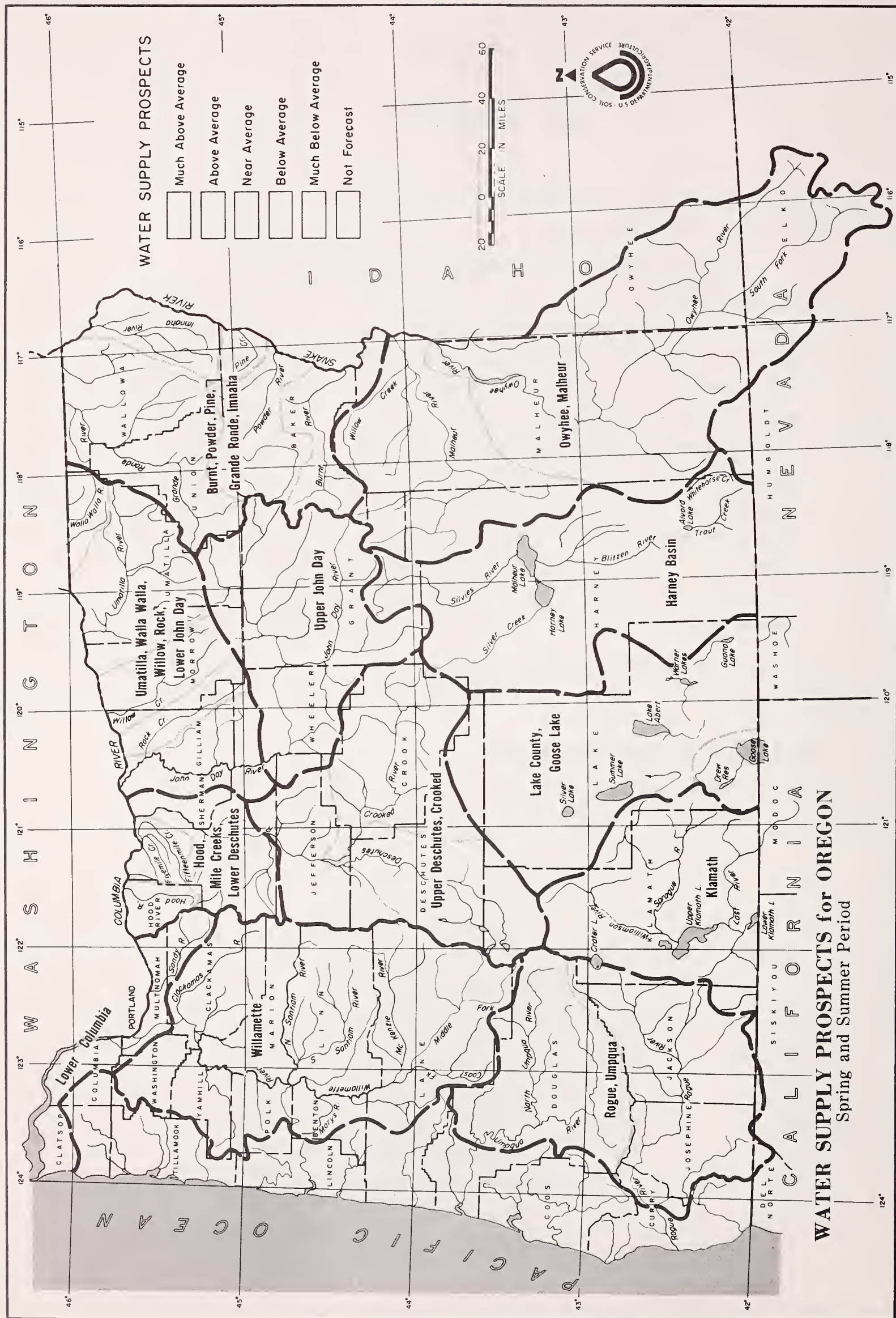
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

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WATERSHED AREA LOCATIONS



WATER SUPPLY OUTLOOK for OREGON

JANUARY 1, 1972

The water supply outlook for Oregon is excellent. A snowpack greater than last year's heavy accumulations has blanketed the mountains. Reservoirs are storing above average amounts. All factors indicate good water supplies for Oregon this next year.

SNOW COVER

The snow cover ranges from a low of 140% on the North Umpqua drainage up to 200% in the Cascades and 300% in the Blue Mountains. Record January 1 measurements were recorded at many snow courses with some exceeding all time records. This is the second year in a row of heavy accumulations in Oregon's mountains.

SOIL MOISTURE

Soils are generally wetter than normal for this time of year, except on the Malheur river. Soils should not absorb more than usual amounts of melting snow water in the spring.

PRECIPITATION

The October-December precipitation has generally been near average to a little above in Western Oregon and the Cascades. It was above average in Eastern Oregon except in Lake County where rainfall was 80% of normal. The good precipitation conditions, combined with the cool temperatures, has caused the heavy snow buildup on the State's watersheds.

continued on next page

continued --

RESERVOIR STORAGE

Reservoirs are storing greater than average amounts for January 1. Total usable contents in twenty-two major reservoirs are 134% of average. Most reservoirs are expected to fill when the spring runoff comes.

STREAMFLOW

Streamflow has varied considerably around the state. Amounts have been much above average to average ranging on down to a low of 50% of normal on the Grande Ronde. Representative streams are as follows:

<u>STREAM</u>	<u>OCT-DEC STREAMFLOW</u> As % of Average
Owyhee Net Inflow	120
Umatilla near Pendleton	130
John Day at Service Creek	85
Deschutes at Moody	100
Grande Ronde at La Grande	50
Willamette at Salem	125
Umpqua near Elkton	135
Rogue	100
Klamath Lake net Inflow	95

* This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.



WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

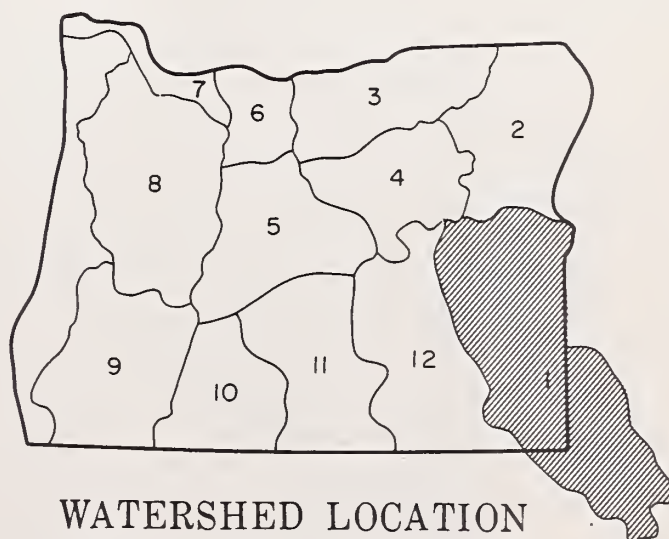
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IS EXCELLENT FOR NEXT SUMMER. CONDITIONS EXCEED THE ROSY PICTURE THAT WAS PRESENTED FOR LAST YEAR. THE SNOW-PACK IS 250 TO 300 PERCENT OF AVERAGE FOR JANUARY 1. SOILS UNDER THE SNOWPACK CONTAIN AN AVERAGE AMOUNT OF MOISTURE, EXCEPT ON THE MALHEUR WHERE THEY ARE WETTED ABOUT HALF OF THE NORMAL AMOUNT. CURRENT STREAMFLOW HAS BEEN GOOD IN SPITE OF THE COLD WEATHER AND AS A RESULT RESERVOIRS STORAGE IS ABOVE AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek Bully Creek Cow Creek Jordan Creek Jordan Valley Irrig. Dist. McDermitt Creek Oregon Canyon Creek Owyhee Project Succor Creek Tenmile Creek Vale-Oregon Irrig. Dist. Warm Springs Irrig. Dist. Willow Creek (Reservoired)	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	



WATERSHED LOCATION

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Bully Creek at Warm Springs	c				
Jordan Creek above Lone Tree Creek	c				
Malheur near Drewsey	c				
Malheur, North Fork at Beulah	c				
Owyhee Reservoir net Inflow	c				
NOTE: FORECASTS BEGIN ON FEB. 1, 1972.					

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome		Forecasts begin in the February 1 report which will be issued about February 10, 1972.	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Antelope	70.0	5.7	20.5	4.0
Beulah Res.	60.0	25.5	21.0	17.4
Bully Creek	30.0	7.2	13.9	- -
Owyhee	715.0	526.2	582.0	330.8
Warm Springs	191.0	110.7	125.9	62.0

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Jordan Creek	b		
Malheur River	1	55	59
Owyhee River	c		

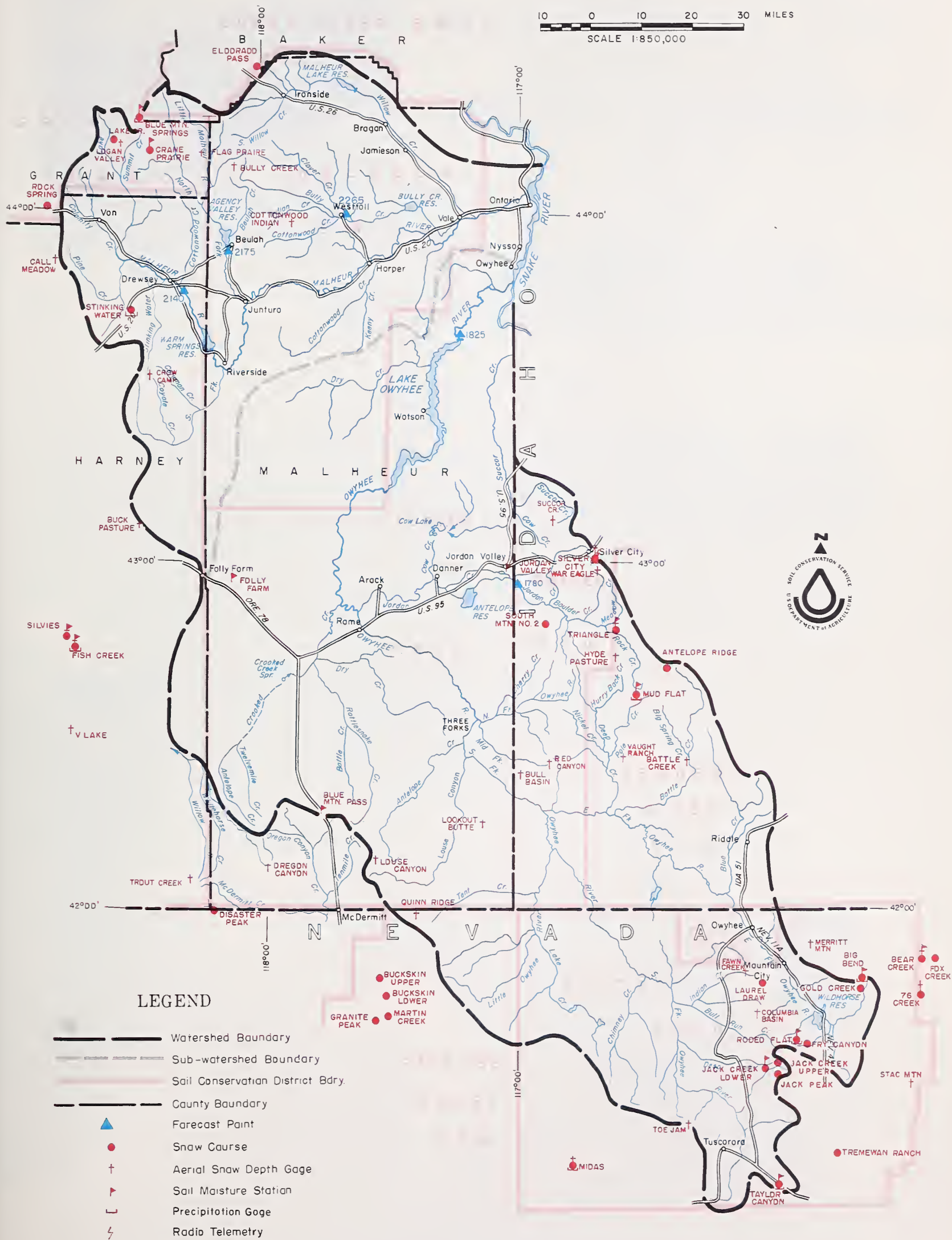
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Jordan Creek	2	120	298
Malheur River	4	116	247
Owyhee River	1	111	308

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

OWYHEE, MALHEUR WATERSHEDS



WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

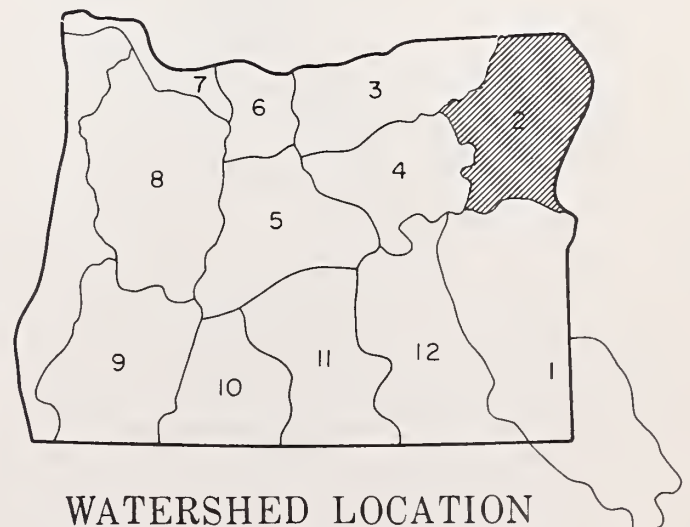
THE WATER SUPPLY OUTLOOK FOR NEXT SUMMER IS EXCELLENT. THE SNOW-PACK ON MOUNTAIN WATERSHEDS IS 2 1/2 TIMES THE JANUARY 1 AVERAGE. RECORD MEASUREMENTS WERE MADE AT BEAVER RESERVOIR ABOVE LA GRANDE AND AT OTHER COURSES IN THE BLUE MOUNTAINS. SOILS UNDER THE SNOW ARE WETTER THAN USUAL. RESERVOIRS ARE STORING NORMAL AMOUNTS OF WATER FOR THIS TIME OF YEAR. STREAMFLOW HAS BEEN LOW DUE TO THE COLD WEATHER.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope		
Baker Valley		
Big Creek		
Clover Cr. (nr. N. Powder)		
Cove		
Durkee		
Eagle Valley		
Elgin		
Enterprise-Joseph		
Hereford-Bridgeport		
Imnaha River		
LaGrande-Island City		
Lostine-Wallowa		
No. Powder River-Wolf Creek		
Pine Valley		
Powder River-Elk Creek		
Summerville		
Sumpter Valley		
Union-Hot Lake		
Unity		

Forecasts begin in the February 1 report which will be issued about February 10, 1972.



WATERSHED LOCATION

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Bear near Wallowa	c				
Burnt near Hereford	c				
Catherine near Union	c				
Eagle Creek above Skull Creek	c				
Grande Ronde at La Grande	c				
Hurricane near Joseph	c				
Imnaha at Imnaha	c				
Lostine near Lostine	c				
Powder near Sumpter	c				
Wallowa, East Fork near Joseph	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1972.

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Burnt, Powder	1	--	97
Grande Ronde, Catherine Cr., Imnaha River	2	104	120

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Phillips Lake	73.5	48.8	53.8	--
Thief Valley	17.4	17.4	17.4	--
Unity	25.2	8.6	8.9	6.5
Wallowa Lake	37.5	19.9	17.9	20.5

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Burnt River	3	127	238
Grande Ronde River			
above La Grande	3	246	263
Powder River	2	140	227
Wallowa, Imnaha, Catherine Creek	c		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

10 0 10 20 30 MILES

SCALE 1:675,000

SCALE 1:350,000

WASHINGTON



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- ↑ Soil Moisture Station
- ⊕ Aerial Snow Depth Gage
- ⌈ Precipitation Gage





WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS OREGON

Area 3

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
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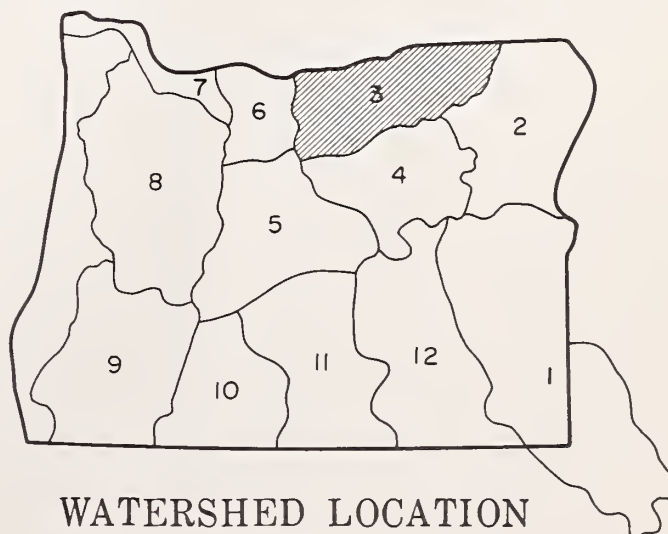
GENERAL OUTLOOK

AN EXCELLENT WATER SUPPLY IS IN PROSPECT FOR UMATILLA, MORROW AND GILLIAM COUNTIES. A RECORD SNOWPACK FOR JANUARY 1 HAS BEEN MEASURED THROUGHOUT THE BLUE MOUNTAINS. IT IS FOUR TO FIVE TIMES THE 1953-67 NORMAL. SOIL MOISTURE IS NEAR AVERAGE. RESERVOIR STORAGE IS EXCELLENT WITH MCKAY BEING OVER HALF FULL. STREAMFLOW ON THE UMATILLA AT PENDLETON FROM OCTOBER TO JANUARY 1 HAS BEEN 130 PERCENT OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, N. Fk.	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	
Walla Walla River, S. Fk.		
Walla Walla River, Main		
Walla Walla River, Little		
Couse Creek		
Dry Creek		
Pine Creek		
Umatilla River, Main		
Wildhorse Creek		
Umatilla R. (Cold Springs Reservoir)		
Umatilla R. (McKay Res.)		
McKay Creek		
Birch Creek		
Butter Creek		
Willow Creek		
Rhea Creek		
Rock Creek (John Day Tributary)		



WATERSHED LOCATION

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average †
Birch Creek at Rieth	c			
Butter Creek near Pine City	c			
McKay near Pilot Rock	c			
Umatilla near Gibbon	c			
Umatilla at Pendleton	c			
Walla Walla, North Fork near Milton	c			
Walla Walla, South Fork near Milton	c			
NOTE: FORECASTS BEGIN ON FEB. 1, 1972.				

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton		Forecasts begin in the February 1 report which will be issued about February 10, 1972.	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Cold Springs	50.0	21.5	25.8	20.2
McKay	73.8	44.0	22.1	16.1

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Umatilla, Walla Walla, McKay Creek	3	101	102

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
McKay Creek	2	387	527
Umatilla River	3	298	372
Walla Walla River	2	272	375

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base per

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

10 0 10 20 30
SCALE 1:750,000



LEGEND

- Watershed Boundary
- - - Sub-watershed Boundary
- - - Soil Conservation District Bdry.
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- ▼ Soil Moisture Station
- [] Precipitation Gage





WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

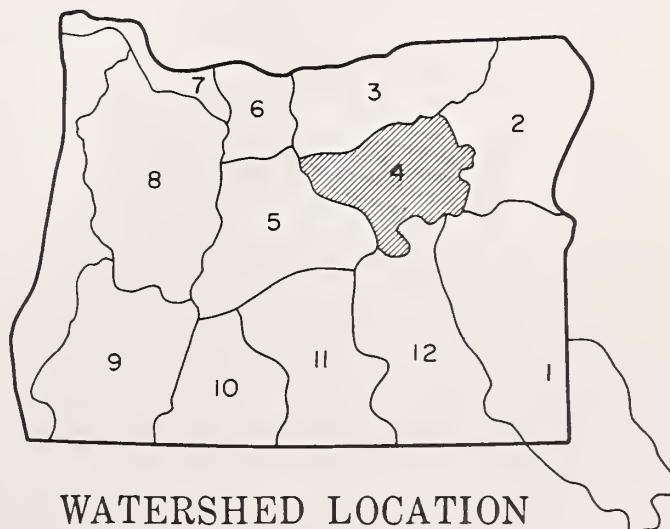
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THIS COMING SUMMER IS EXCELLENT. THE JANUARY 1 SNOWPACK IS 2 1/2 TIMES THE AVERAGE. RECORD AMOUNTS OF SNOW WERE MEASURED AT BATTLE MOUNTAIN SUMMIT, BEECH CREEK, AND STARR RIDGE. SOIL MOISTURE CONDITIONS ARE ABOUT AVERAGE FOR THIS TIME OF YEAR. STREAMFLOW HAS BEEN SLIGHTLY BELOW AVERAGE BECAUSE OF THE COLD TEMPERATURES.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek Beech Creek-Fox-Long Cr. Bridge-Mountain Creeks Camas Creek Cherry Creek Indian-Pine Creeks John Day River, Main Fork John Day River, Mid. Fork John Day River, N. Fork John Day River, S. Fork Monument-Kimberly Strawberry Creek	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	



WATERSHED LOCATION

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Camas Creek near Ukiah John Day at Prairie City John Day, Middle Fork at Ritter John Day, North Fork at Monument Strawberry near Prairie City	c c c c c				
NOTE: FORECASTS BEGIN ON FEB. 1, 1972.					

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
John Day abv. Dayville	4	86	91
John Day, North Fork	1	97	106

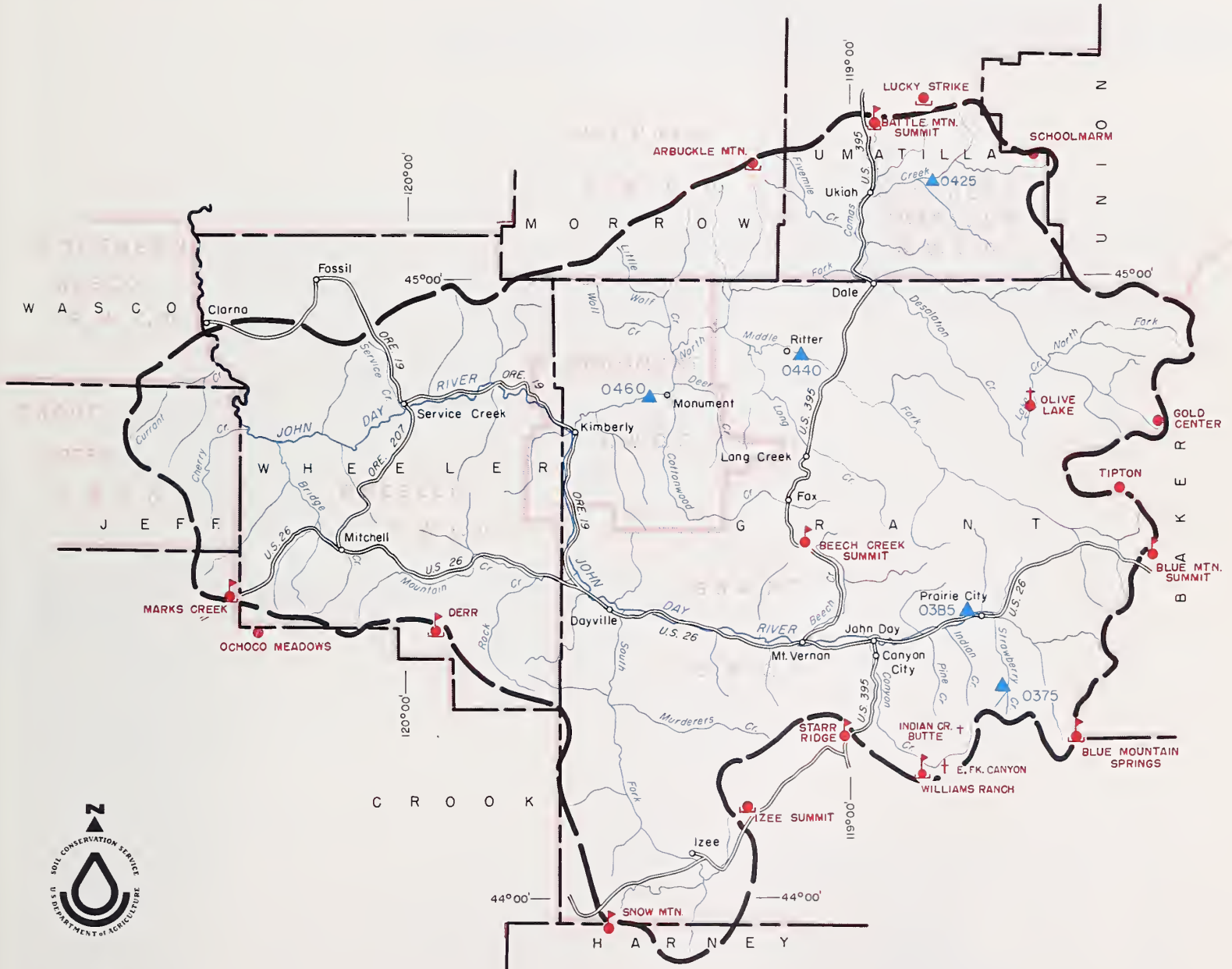
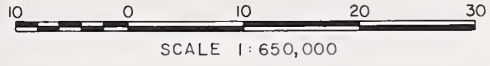
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)


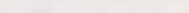

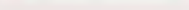




RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
John Day, North Fork	3	155	259
John Day abv. Dayville	3	139	244

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UPPER JOHN DAY WATERSHEDS



LEGEND

- | | |
|---|----------------------------------|
|  | Watershed Boundary |
|  | Sub-watershed Boundary |
|  | Soil Conservation District Bdry. |
|  | County Boundary |
|  | Forecast Point |
|  | Snow Course |
|  | Soil Moisture Station |
|  | Aerial Snow Depth Gage |
|  | Precipitation Gage |





WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

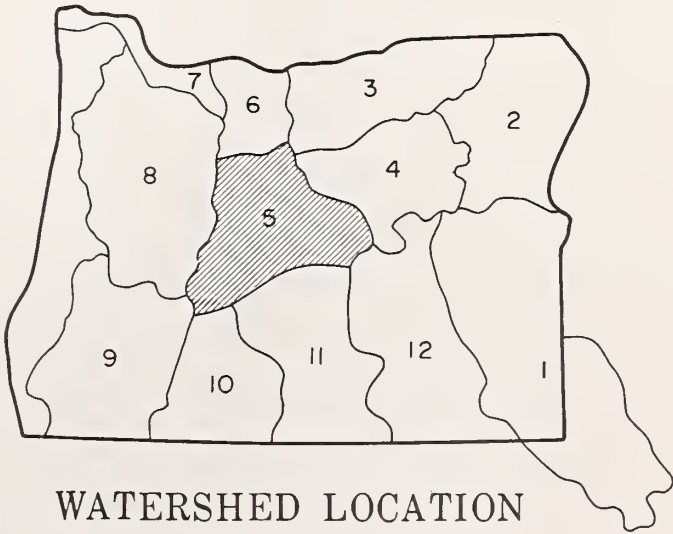
EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR CENTRAL OREGON. THE MOUNTAIN SNOWPACK IS TWICE THE AVERAGE FOR JANUARY 1. RESERVOIRS ON THE DESCHUTES ARE STORING AMOUNTS 120 PERCENT OF AVERAGE. THIS IS THE BEST SINCE 1965. STREAMFLOW ON THE DESCHUTES FROM OCTOBER TO JANUARY 1 HAS BEEN NEAR NORMAL.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation District		
Bear Creek		
Beaver Creek		
Camp Creek		
Central Ore. Irrig. Dist.		
Crooked River		
Deschutes River		
Hay-Trout Creeks		
Lone Pine Irrig. Dist.		
Mill Creek		
North Unit Irrig. Dist.		
Ochoco Creek		
Sisters Irrigation Dist.		
Snow Creek Irrig. Dist.		
Squaw Creek Irrig. Dist.		
Swalley Ditch		
Tumalo Project		
Walker Basin Irrig. Dist.		

Forecasts begin in the February 1 report which will be issued about February 10, 1972.



WATERSHED LOCATION

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Beaver Creek near Paulina	c				
Crane Prairie Reservoir total Inflow	c				
Crescent at Crescent Lake	c				
Crooked near Post	c				
Deschutes at Benham Falls	c				
Deschutes below Snow Creek	c				
Deschutes, Little near La Pine	c				
Ochoco Reservoir net Inflow	c				
Odell near Crescent	c				
Squaw near Sisters	c				
Tumalo near Bend	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1972.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/ Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Deschutes at Bend			
Little Deschutes near La Pine			
Crane Prairie net Inflow			

Forecasts begin in the February 1 report which will be issued about February 10, 1972.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Crane Prairie	55.3	48.9	37.9	40.2
Crescent Lake	86.9	64.8	34.8	44.3
Ochoco	47.5	27.9	23.5	19.2
Prineville	153.0	93.0	91.0	103.5
Wickiup	200.0	180.9	94.2	134.6

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Crooked R., Upper Deschutes River	c		

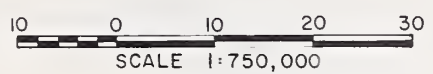
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Crooked, Ochoco			
Deschutes abv. Wickiup	1	114	209
Little Deschutes	2	123	198
Tumalo & Squaw Crs.	2	108	204

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UPPER DESCHUTES, CROOKED WATERSHEDS



SCALE 1:1,500,000

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- ▼ Soil Moisture Station
- └─┘ Precipitation Gage
- ⚡ Radio Telemetry
- Temperature Gage





WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

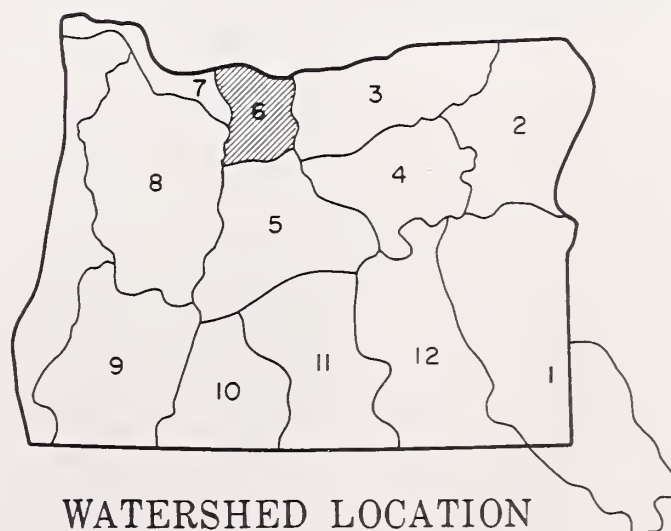
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR NEXT SUMMER IS EXCELLENT. A VERY HEAVY MOUNTAIN SNOWPACK HAS ACCUMULATED. IT IS 230 PERCENT OF AVERAGE. SOIL MOISTURE IS NEAR AVERAGE FOR THIS TIME OF YEAR. A RECORD SNOW MEASUREMENT FOR JANUARY 1 WAS MADE AT CLEAR LAKE NEAR MT. HOOD.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek) Badger Creek Dee Irrigation Dist. East Fork Irrig. Dist. Farmers Irrigation Dist. Hood River Irrig. Dist. Juniper Flat Middle Fork Irrig. Dist. Mile Creeks Mill Creek Mount Hood Irrig. Dist. Rock-Gate-Threemile Crs. Tygh Creek White River	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year Average †
Hood River near Tucker Bridge Hood, West Fork near Dee White below Tygh Valley	c c c		NOTE: FORECASTS BEGIN ON FEB. 1, 1972.	

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow		Forecasts begin in the February 1 report which will be issued about February 10, 1972.	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Clear Lake (Wasco)	11.9	6.8*	4.2**	--
*Reading 12/21/71. **Reading 12/22/70.				

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Hood River, Mile Creeks	1	100	--

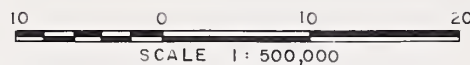
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Hood River	4	150	230
Mile Creeks	c		
White River	3	171	239

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS



LEGEND

- Watershed Boundary
- - - Sub-watershed Boundary
- - - Soil Conservation District Bdry
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ⬆ Soil Moisture Station
- ⌈ Precipitation Gage
- Ⓜ Temperature Gage
- ⚡ Radio Telemetry



WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY · OREGON STATE ENGINEER

GENERAL OUTLOOK

ABUNDANT WATER SUPPLIES ARE EXPECTED FOR THE COLUMBIA BASIN. THE SNOWPACK GENERALLY RANGES FROM 135 TO OVER 300 PERCENT OF AVERAGE. IT GENERALLY EQUALS THE FEBRUARY 1 AVERAGE WITH SOME LOWER ELEVATION AREAS OF OREGON AND SOUTHERN IDAHO HAVING SNOWPACKS APPROACHING THE MARCH FIRST AND APRIL FIRST AVERAGES. SOIL MOISTURE IS NEAR AVERAGE OR ABOVE, EXCEPT IN MONTANA AND CANADA WHERE IT TENDS TO BE DRIER THAN USUAL. RIVER STAGES ALONG THE LOWER COLUMBIA SHOULD BE WELL ABOVE NORMAL DURING LATE SPRING AND EARLY SUMMER.



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SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Sandy River	2	170	230

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Columbia at The Dalles Sandy River near Marmot					

NOTE: FORECASTS BEGIN ON FEB. 1, 1972.

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW ^d (1,000 A.F.)			PEAK (1,000 c.f.s.)	DATE
	APR. — SEPT.	APR. — JUNE	MAY — JUNE		
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,903	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s.)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.

LOWER COLUMBIA WATERSHEDS

10 0 10 20 30
SCALE 1: 600,000



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- 50 River Miles
- Snow Course
- 9 Temperature
- ⚡ Radio Telemetry
- ▲ Forecast Point



WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

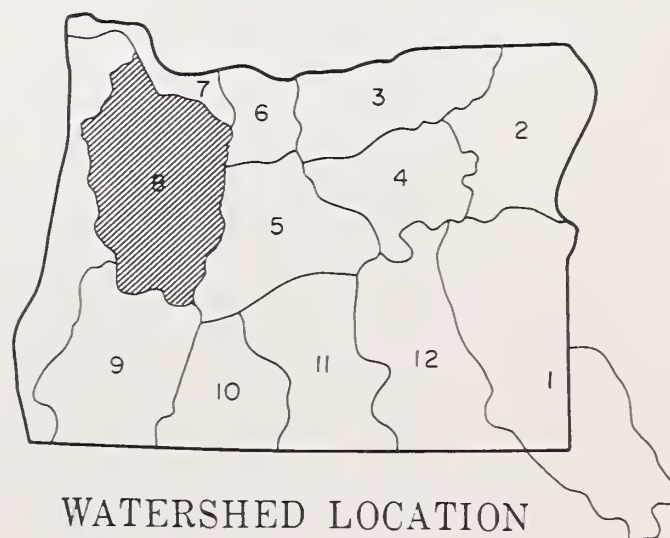
GENERAL OUTLOOK

WILLAMETTE BASIN WATER USERS WILL HAVE EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON. THE EARLY SEASON SNOWPACK VARIES FROM 214 PERCENT OF AVERAGE ON THE UPPER MCKENZIE RIVER TO 399 PERCENT ON THE ROW RIVER, AND IS ABOUT 150 PERCENT OF LAST YEARS EXCELLENT SNOWPACK. THE WILLAMETTE RIVER NEAR SALEM FLOWED 120 PERCENT OF AVERAGE DURING DECEMBER AND 123 PERCENT DURING THE OCTOBER THROUGH DECEMBER PERIOD. MULTIPURPOSE POWER RESERVOIRS ARE BEING HELD AT THEIR USUAL LOW LEVELS FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya Clackamas McKenzie Molalla Santiam, North Santiam, South Willamette, Coast Fork Willamette, Middle Fork	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Clackamas at Estacada	c				
Clackamas above Three Lynx	c				
McKenzie at McKenzie Bridge	c				
McKenzie near Vida	c				
McKenzie, South Fork near Rainbow	c				
Oak Grove Fork above Power Intake	c				
Row near Dorena	c				
Santiam, North at Mehama	c				
Santiam, South at Waterloo	c				
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	c				
Willamette, Mid. Fk. abv. Salt Cr. nr. Oakridge	c				
Willamette, No. Fk. of Mid. Fk. near Oakridge	c				
Willamette at Salem	c				
NOTE: FORECASTS BEGIN ON FEB. 1, 1972.					

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Blue River	85.6*	0.0	2.1	- -
Cottage Grove	30.0*	0.0	2.0	2.2
Cougar	155.2*	5.0	0.0	- -
Detroit	299.9*	0.0	0.8	40.2
Dorena	70.5*	0.0	4.0	9.1
Fall Creek	115.0*	0.0	0.0	- -
Fern Ridge	94.2*	0.0	9.9	14.5
Foster	30.0*	0.2	2.3	- -
Green Peter	270.0*	0.0	16.3	- -
Hills Creek	200.0*	8.7	2.7	183.2
Lookout Point	337.2*	0.0	4.6	75.2
Timothy Lake	61.7	51.4	47.0	46.4
*Multiple purpose reservoir--space reserved primarily for flood runoff.				

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Clackamas River	1	176	338
McKenzie River	3	151	214
Row River	2	101	399
Santiam River	4	111	226
Willamette, Mid. Fk.	3	150	258

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WILLAMETTE WATERSHEDS

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- ⚡ Radio Telemetry
- L Precipitation Gage
- 9 Temperature Gage





WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

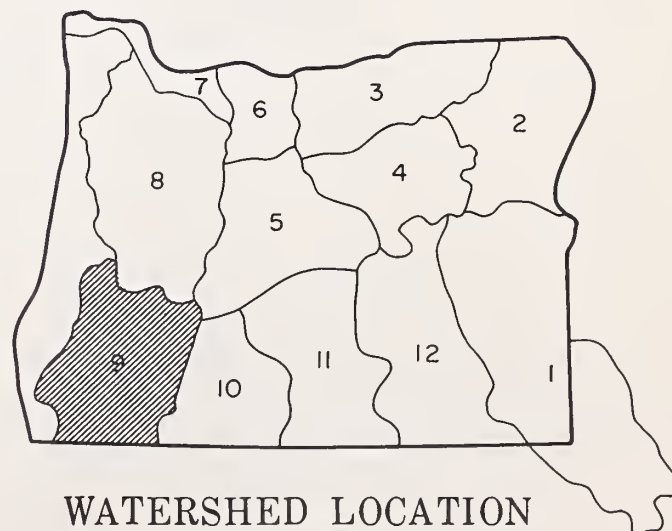
GENERAL OUTLOOK

WATER USERS IN THE ROGUE AND UMPQUA BASINS WILL HAVE EXCELLENT WATER SUPPLY PROSPECTS DURING THE 1972 SEASON. THE EARLY SEASON SNOWPACK IS 200 TO 270 PERCENT OF AVERAGE AND ABOUT 150 PERCENT OF LAST YEARS. PRECIPITATION FOR DECEMBER WAS 99 PERCENT OF AVERAGE AND 107 PERCENT FOR THE OCTOBER TO DECEMBER PERIOD. THE ROGUE RIVER AT RAYGOLD FLOWED 90 PERCENT OF AVERAGE DURING DECEMBER AND 97 PERCENT OF AVERAGE DURING THE OCTOBER-DECEMBER PERIOD. THE UMPQUA NEAR ELKTON FLOWED 138 PERCENT OF AVERAGE DURING DECEMBER AND 135 PERCENT DURING THE OCTOBER TO DECEMBER PERIOD. AREA RESERVOIRS WERE HOLDING 137 PERCENT OF AVERAGE AMOUNTS ON JANUARY 1.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek Applegate River, Big Applegate River, Little Ashland Creek Butte Creek, Big Butte Creek, Little Cow Creek Deer Creek Elk Creek Emigrant Creek (abv. Res.) Evans Creek Gold Hill Irrig. Dist. Grants Pass Irrig. Dist. Grave Creek Illinois River, East Fork Illinois River, West Fork Jump-off-Joe Creek Neil Creek Red Blanket Creek Rogue River Sucker Creek Table Rock Irrig. Dist. Thompson Creek Wagner Creek Williams Creek	Forecasts begin in The February 1 report which will be issued about February 10, 1972.	



WATERSHED LOCATION

Report prepared by
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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Applegate near Copper	c				
Clearwater above Trap Creek	c				
Fourmile Lake net Inflow	c				
Hyatt Reservoir net Inflow	c				
Illinois River near Kerby	c				
Little Butte, N. Fk. at Fish Lk. nr. Lake Cr.	c				
Little Butte, So. Fk. nr. Lake Creek	c				
Rogue above Prospect	c				
Rogue, South Fork near Prospect	c				
Rogue River below South Fork	c				
Rogue at Raygold near Central Point	c				
Rogue at Grants Pass	c				
Umpqua, No. blw. Lemolo Lake nr. Toketee Falls	c				
	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1972.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Rogue at Raygold Little Butte Creek, South Fork		Forecasts begin in the February 1 report which will be issued about February 10, 1972.	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Emigrant Lake	39.0	21.3	17.7	19.7*
Fish Lake	7.8	7.9	5.0	5.2
Fourmile Lake	16.1	c	6.2	8.8
Howard Prairie	60.0	49.0	46.2	32.8
Hyatt Prairie	16.1	13.9	12.6	9.2
*Average for years of record after reconstruction.				

SUMMARY of SNOW MEASUREMENTS

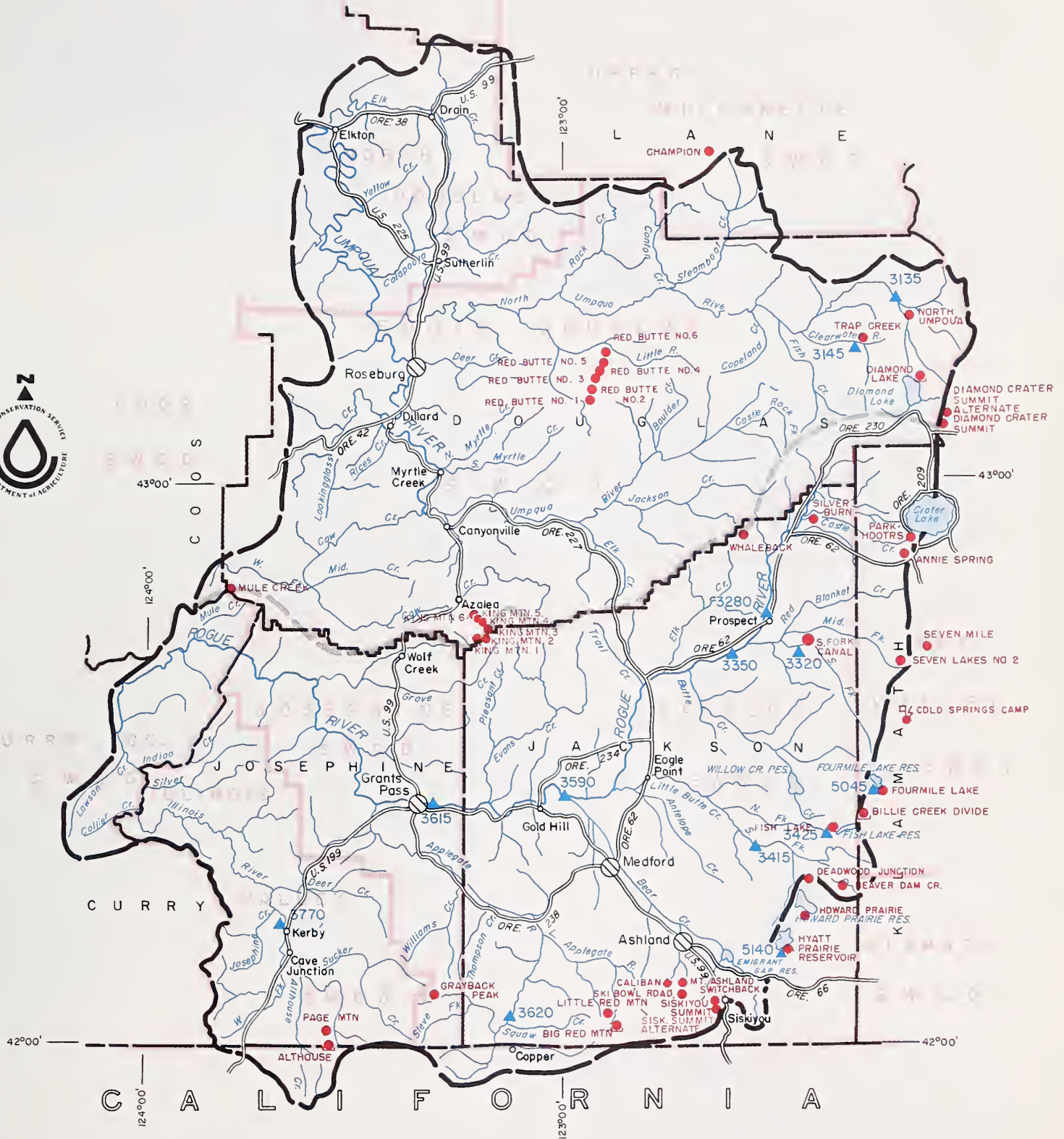
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Applegate	c		
Bear Creek	1	56	266
Butte Creek	4	147	274
Illinois River	c		
North Umpqua	2	156	181
Rogue River	3	147	235

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-6 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

ROGUE, UMPQUA WATERSHEDS

10 0 10 20 30
SCALE 1:650,000



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Precipitation Gage
- Radio Telemetry
- Temperature Gage





WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

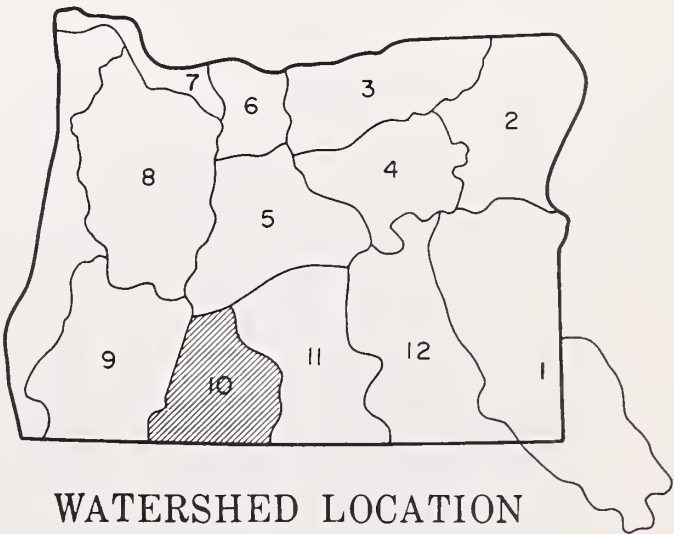
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IS EXCELLENT DURING THE 1972 SEASON FOR KLAMATH BASIN WATER USERS. THE EARLY SEASON MOUNTAIN SNOWPACK IS NEAR LAST YEARS HIGH LEVELS, RANGING FROM 163 PERCENT OF AVERAGE ON THE LOST RIVER TO 212 PERCENT ON THE UPPER KLAMATH DRAINAGE. SOIL MOISTURE WAS NEAR AVERAGE. RESERVOIR STORAGE WAS NEAR AVERAGE FOR JANUARY 1. NET INFLOW INTO UPPER KLAMATH LAKE WAS 86 PERCENT OF AVERAGE DURING DECEMBER AND 95 PERCENT FOR THE OCTOBER THROUGH DECEMBER PERIOD.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake Williamson River	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year
Clear Lake Reservoir Inflow	c			
Gerber Reservoir Inflow	c			
Sprague near Chiloquin	c			
Upper Klamath Lake net Inflow	c			
Williamson below Sprague River	c			
NOTE: FORECASTS BEGIN ON FEB. 1, 1972.				

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Upper Klamath	1	82	76

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Clear Lake	440.2	278.2	289.5	191.7
Gerber	94.0	56.7	58.9	36.4
Upper Klamath Lake	584.0	369.4	330.3	351.3

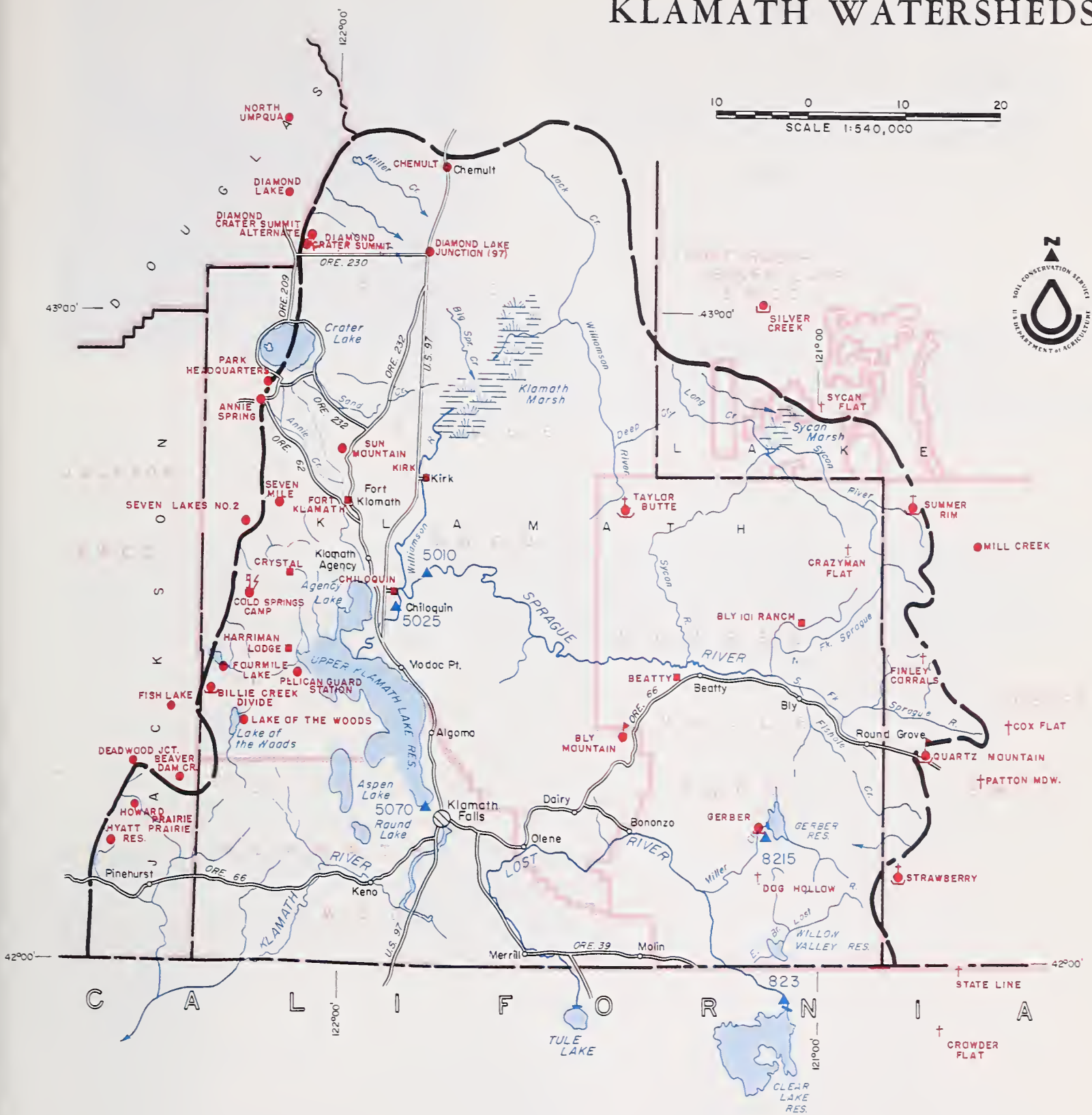
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Lost River	1	100	163
Sprague River	2	85	200
Upper Klamath	7	134	212
Williamson River	3	120	181

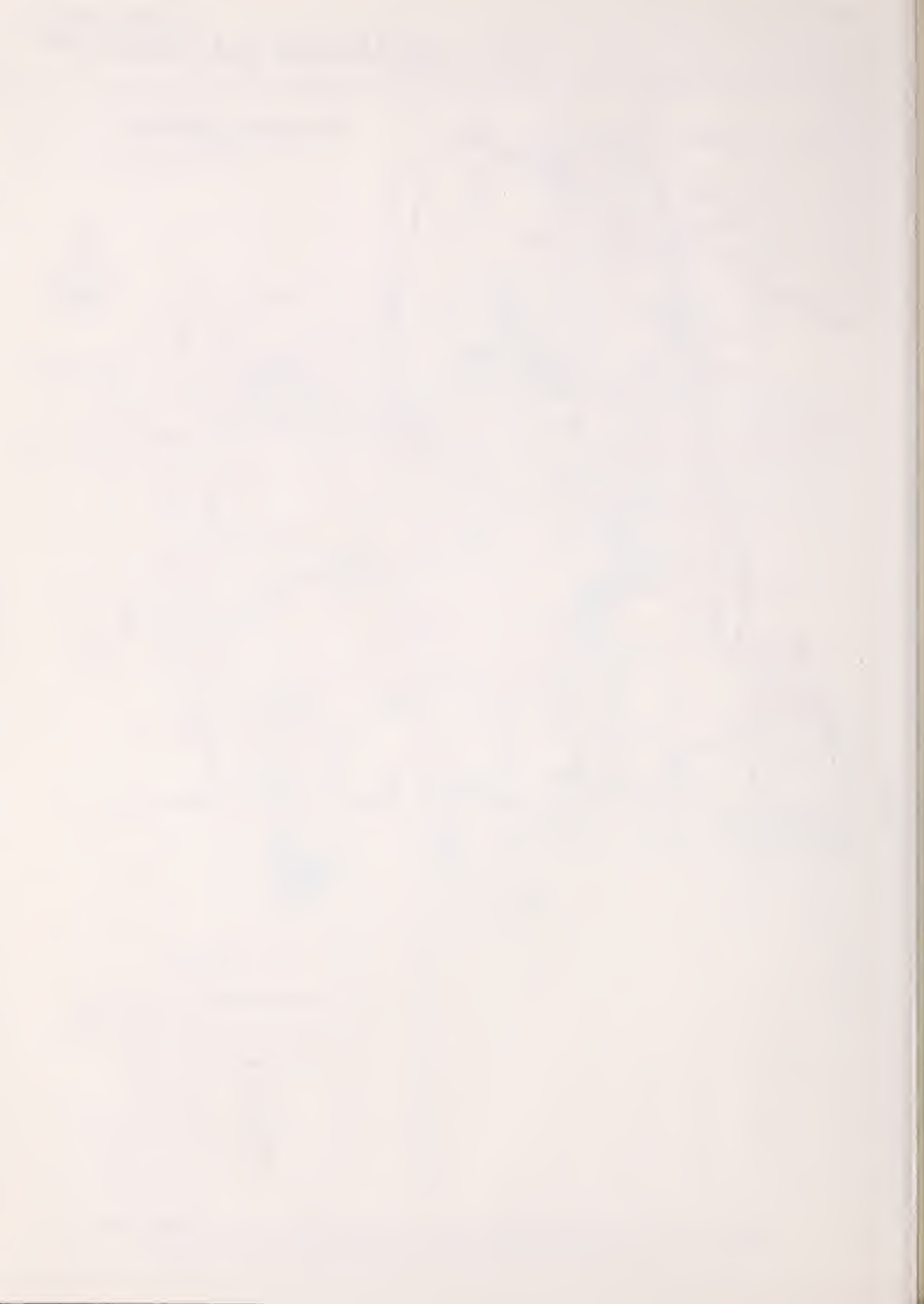
(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

KLAMATH WATERSHEDS



LEGEND

- Watershed Boundary
- - - Sub-watershed Boundary
- - - Soil Conservation District Bdry.
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- + Aerial Snow Depth Gage
- PP&L Snow Station
- ▶ Soil Moisture Station
- ⌋ Precipitation Gage
- ⚡ Radio Telemetry
- Temperature Gage



WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

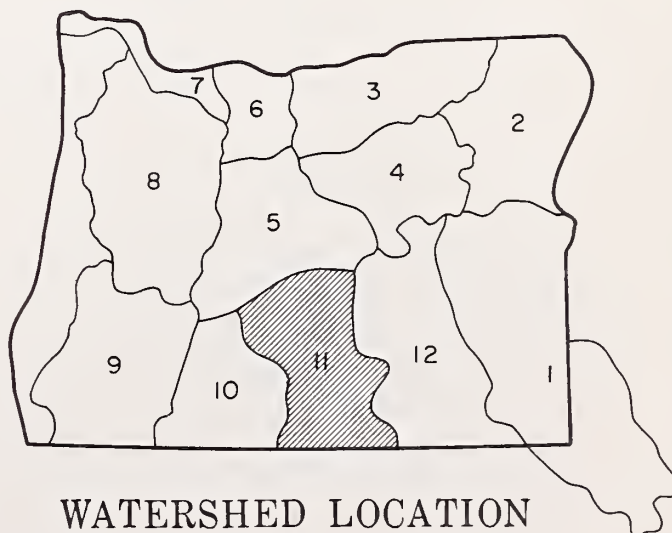
GENERAL OUTLOOK

LAKE COUNTY, GOOSE LAKE WATER USERS WILL AGAIN HAVE EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON. THE MOUNTAIN SNOWPACK IS NEAR LAST YEARS LEVELS OF BETTER THAN 200 PERCENT OF THE JANUARY 1 AVERAGE. AVAILABLE SOIL MOISTURE IS NEAR AVERAGE. DREWS RESERVOIR WAS HOLDING 39,000 ACRE FEET WHICH IS SLIGHTLY ABOVE THE JANUARY 1 AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River Crooked Creek Deep Creek Dry Creek East Side Goose Lake Guano Lake Honey Creek Lakeview Water Users Assn. Rock Creek (Hart Mountain) Silver-Buck Creeks Summer Lake Thomas Creek Twentymile Creek Warner Lakes	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Chewaucan near Paisley	c				
Deep above Adel	c				
Drews Reservoir net Inflow	c				
Honey near Plush	c				
Silver Creek near Silver Lake	c				
Twentymile near Adel	c				
NOTE: FORECASTS BEGIN ON FEB. 1, 1972.					

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Chewaucan, Silver Creek, Drew Creek	1	82	76
Honey, Deep, 20-mi. Cr	1	92	100

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cottonwood	8.7	b	3.0	2.1*
Drews	63.0	39.0	41.4	31.0
Thompson Valley	19.5	b	b	11.1
*Average for years of record after reconstruction.				

SUMMARY of SNOW MEASUREMENTS

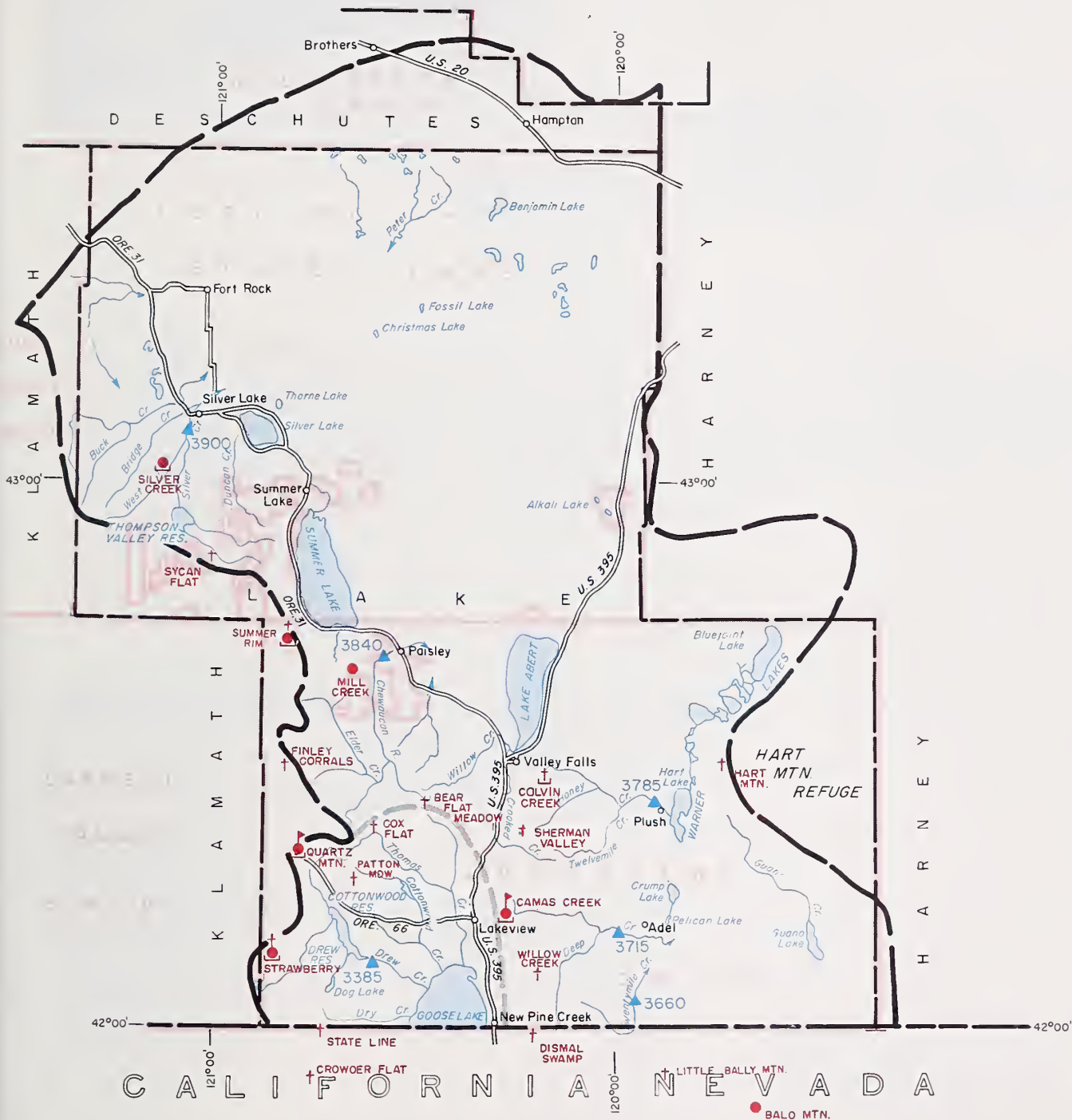
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Chewaucan River	2	85	200
Deep Creek	1	99	212
Drew Creek	1	84	171
Honey Creek	1	99	212
Silver Creek	2	84	212
Twentymile Creek	c		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

LAKE COUNTY, GOOSE LAKE WATERSHEDS

10 0 10 20 30
SCALE 1:750,000



LEGEND

- Watershed Boundary
- - - Sub-watershed Boundary
- ... Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- PP&L Snow Station
- ▲ Soil Moisture Station
- └ Precipitation Gage





WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

as of

JANUARY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

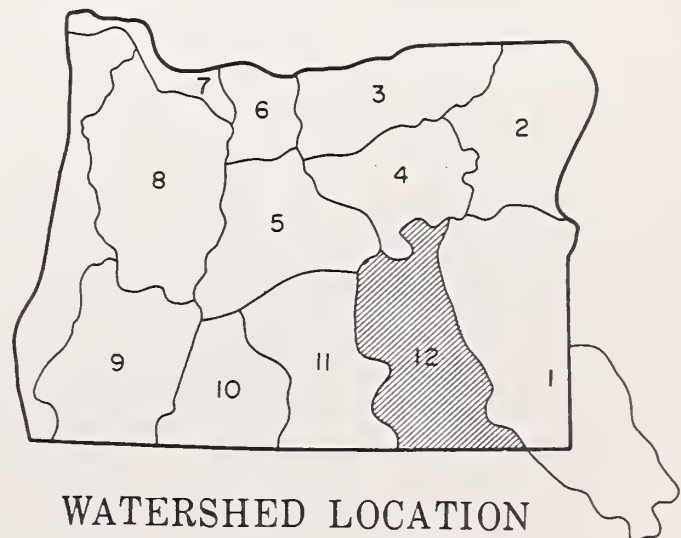
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR HARNEY BASIN WATER USERS DURING THE 1972 SEASON. THE EARLY SEASON SNOWPACK IS MUCH ABOVE AVERAGE, ESPECIALLY AT THE LOWER ELEVATIONS. PRECIPITATION DURING DECEMBER WAS ABOUT 135 PERCENT OF AVERAGE AND FOR THE PERIOD OCTOBER THROUGH DECEMBER 113 PERCENT OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley Cow Creek Donner und Blitzen River Mill-Coffeepot Creeks Rattlesnake Creek Silver Creek Silvies River Soldier-Prather Creek Trout Creek Whitehorse Creek	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Donner und Blitzen near Frenchglen	c				
Silver near Riley	c				
Silvies near Burns	c				
Trout near Denio	c				
NOTE: FORECASTS BEGIN ON FEB. 1, 1972.					

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Silvies River, Silver Cr.	c		
Trout Cr., Donner und Blitzen River	c		

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Donner und Blitzen R.	1	75	231
Silver Creek	c		
Silvies River	4	137	255
Trout Creek	c		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

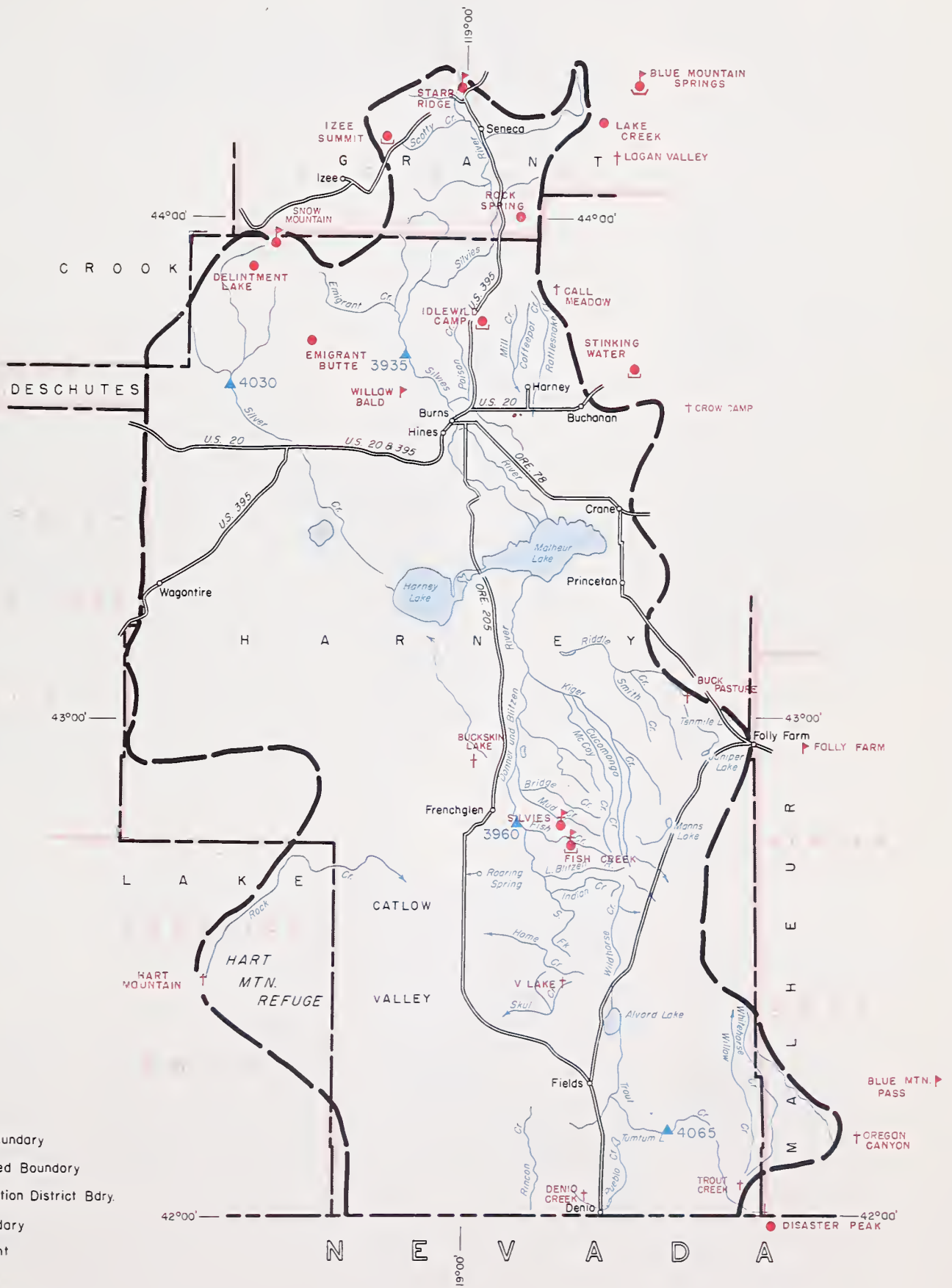
HARNEY BASIN WATERSHEDS

10 0 10 20 30
SCALE 1:750,000



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ▶ Soil Moisture Station
- L Precipitation Gage





BASIC DATA SUPPLEMENT 1

JANUARY 1, 1972

SNOW

SNOW	THIS YEAR			PAST REC.	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave†
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)					
Battle Creek ^e (Ida.)					
Bear Creek ^e (Nev.)	1/4	44	12.8	11.0	6.6 ^h
Big Bend (Nev.)	12/27	30	7.4	3.5	2.6 ^h
Blue Mountain Springs	12/28	44	12.1	10.2	5.6
Blue Mtn. Springs Pillow	12/28		8.7	5.3	- -
Buck Pasture ^e					
Buckskin, Lower (Nev.)					
Buckskin, Upper (Nev.)					
Bull Basin ^e (Ida.)					
Bully Creek ^e					
Call Meadow ^e					
Columbia Basin ^e (Nev.)					
Cottonwood-Indian ^e					
Crane Prairie					
Disaster Peak (Nev.)					
Eldorado Pass	12/29	18	3.7	4.2	1.2 ^h
Fawn Creek ^e (Nev.)					
Fish Creek					
Fish Creek Pillow*					
Flag Prairie ^e					
Fox Creek (Nev.)					
Fry Canyon (Nev.)	12/28	30	6.3	3.5	2.3 ^h
Gold Creek (Nev.)	12/27	21	4.8	2.0	1.6 ^h
Granite Peak (Nev.)					
Hyde Pasture ^e (Ida.)					
Jack Creek, Lower (Nev.)					
Jack Creek, Upper (Nev.)					
Jack Peak (Nev.)					
Lake Creek R.S.	12/28	34	8.6	7.2	3.6 ^h
Laurel Draw (Nev.)					
Logan Valley ^e					
Lookout Butte ^e					
Louse Canyon					
Martin Creek (Nev.)					
Merritt Mountain ^e (Nev.)					
Midas ^e (Nev.)					
Mud Flat (Ida.)					
Oregon Canyon ^e					
Quinn Ridge ^e (Nev.)					
Red Canyon ^e (Ida.)					
Rock Spring	12/29	23	5.2	4.0	1.6
Rodeo Flat (Nev.)	12/28	28	6.3	2.5	2.4 ^h
76 Creek ^e (Nev.)	1/4	27	8.0	7.1	- -
Silver City (Ida.)	12/28	47	14.2	11.1	4.9 ^h
Silvies					
Silvies Pillow*					
South Mountain #2 (Ida.)	12/27	38	11.1	10.0	3.6 ^h
Stag Mountain ^e (Nev.)					
Stinking Water	12/29	13	3.0	4.0	1.3 ^h
Succor Creek ^e (Ida.)					
Taylor Canyon (Nev.)	12/27	21	4.2	2.6	1.6 ^h
Toe Jam ^e (Nev.)					
Tremewan Ranch (Nev.)	12/28	10	2.0	0.9	0.4 ^h
Triangle (Ida.)					
Trout Creek ^e					
"V" Lake ^e					
Vaught Ranch ^e (Ida.)					
War Eagle ^e (Ida.)					
*Manometer Reading.					

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†
BURNT, POWDER, PINE GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1					
Aneroid Lake #2					
Anthony Lake	12/30	72	19.5	11.2	11.0
Bald Mountain ^e (Ore.)					
Beaver Reservoir	12/29	46	10.8	5.0	3.7 ^h
Beaver Reservoir (Alt.)	12/29	52	13.2	6.2	- -
Big Sheep ^e					
Blue Mtn. Summit	12/29	30	7.6	5.6	2.9
Bourne					
County Line	12/30	31	7.1	2.0	2.2
Dooley Mountain	12/27	31	8.4	7.3	3.0
Eilertson Meadows	12/28	33	9.6	7.2	4.4 ^h
Eldorado Pass	12/29	18	3.7	4.2	1.2 ^h
Gold Center					
Goodrich Lake	12/29	77	21.4	24.6	- -
Intake House	12/28	33	8.4	7.3	- -
Little Alps	12/30	48	11.3	7.7	4.8 ^h
Little Antone	12/30	33	8.1	4.6	- -
Lucky Strike					
Lucky Strike Pillow*					
Meacham	12/29	48	12.8	2.6	2.6 ^h
Mirror Lake ^e					
Moss Spring					
Power Plant	12/28	22	5.8	4.3	- -
Schneider Meadows					
Schoolmarm	12/30	29	7.0	1.4	1.8
Stanley ^e					
Taylor Green					
Tipton	12/29	36	9.6	7.2	3.8
Tipton Snow Pillow	12/29	40	9.3	8.8	- -
Tollgate	12/30	76	23.3	10.6	8.1 ^h
TV Ridge ^e					
*Manometer reading.					
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain					
Arbuckle Mtn. Pillow*					
Battle Mountain Summit	12/20	26	6.2	1.7	0.9 ^m
Blue Mountain Camp	12/30	50	20.2	5.4	3.5 ^m
Emigrant Springs	12/29	42	10.4	2.4	1.7 ^m
High Ridge Pillow*					
Lucky Strike					
Lucky Strike Pillow*					
Meacham	12/29	48	12.8	2.6	2.6 ^h
Tollgate	12/30	76	23.3	10.6	8.1 ^h
Weston Mountain	12/30	6	0.6	0.6	- -
*Manometer Reading.					

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1972

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave.†
UPPER JOHN DAY WATERSHEDS					
Anthony Lake	12/30	72	19.5	11.2	11.0
Arbuckle Mountain	c				
Arbuckle Mtn. Pillow*	c				
Battle Mountain Summit	12/30	26	6.2	1.7	0.9
Beech Creek Summit	12/27	28	7.2	4.4	1.5
Blue Mountain Springs	12/28	44	12.1	10.2	5.6
Blue Mtn. Springs Pillow	12/28	-	8.7	5.3	- -
Blue Mountain Summit	12/29	30	7.6	5.6	2.9
Derr	c				
East Fork Canyon ^e	c				
Gold Center	c				
Indian Creek Butte ^e	c				
Izee Summit	12/27	28	6.6	4.9	2.7
Lucky Strike	c				
Lucky Strike Pillow*	c				
Marks Creek	1/3	24	6.1	3.3	1.3
Ochoco Meadows	c				
Olive Lake ^e	c				
Schoolmarm	12/30	29	7.0	1.4	1.8
Snow Mountain	c				
Snow Mtn. Pillow*	c				
Starr Ridge	12/29	26	6.4	3.0	2.0
Tipton	12/29	36	9.6	7.2	3.8
Tipton Snow Pillow	12/29	40	9.3	8.8	- -
Williams Ranch	12/30	17	3.3	- -	- -
*Manometer reading.					
UPPER DESCHUTES, CROOKED WATERSHEDS					
Caldwell Ranch	c				
Cascade Summit	12/28	72	22.0	16.6	10.3
Chemult	12/30	27	6.9	6.9	4.1
Derr	c				
Hogg Pass	12/29	93	28.0	22.7	13.9
Hungry Flat	1/1	22	5.1	6.5	- -
Irish-Taylor	c				
Irish-Taylor Pillow*	12/30	-	26.3	20.9	- -
Marks Creek	1/3	24	6.1	3.3	1.3
New Crescent Lake	c				
New Dutchman Flat #2	1/1	95	37.4	32.9	- -
Ochoco Meadows	c				
Snow Mountain	c				
Snow Mtn. Pillow	c				
Tamarack	c				
Tangent	1/1	50	15.0	18.3	- -
Three Creek Butte	c				
Three Creek Meadow	c				
Three Creek Mdw. Pillow	c				
Waldo Lake	c				
Willamette Pass	c				
Willamette Pass Pillow*	No report				
*Telemetry readings.					

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows	c				
Clear Lake	12/21	34	8.8	5.0	2.6 ^h
Clear Lake (Experimental)	12/21	53	12.9	7.5	4.9 ^h
Cooper Spur (Alternate)	1/3	32	9.9	12.3	6.6
Greenpoint	c				
Knebal Springs	c				
Parkdale	1/3	0	0.0	3.6	1.0 ^m
Phlox Point	12/22	134	45.1	26.7	20.8
Red Hill	c				
Still Creek	12/21	68	19.0	11.0	7.1
Still Creek (Alt. #2)	12/21	67	18.9	- -	- -
Switchback	c				
Tilly Jane	c				
Ulrich Ranch Junction	c				
Umbrella Falls	1/1	138	51.6	29.8	- -
Upper Valley	1/3	10	4.0	6.6	2.7 ^h
WILLAMETTE WATERSHEDS					
Cascade Summit	12/28	72	22.0	16.6	10.3
Champion	12/29	84	27.1	30.0	7.7 ^h
Clackamas Lake	c				
Clear Lake	12/21	34	8.8	5.0	2.6 ^h
Clear Lake (Experimental)	12/21	53	12.9	7.5	4.9 ^h
Dead Horse Grade	12/30	58	15.8	7.4	6.5 ^h
Detroit (Town)	12/29	12	2.5	2.8	0.6
Detroit Dam	12/29	4	1.0	T	0.3
Golden Curry Creek	12/29	33	9.2	5.8	1.4 ^h
Hogg Pass	12/29	93	28.0	22.7	13.9
Lake Harriet	c				
Laurel Mountain	12/30	72	22.6	- -	- -
Layng Creek	12/29	T	T	0.0	0.1 ^h
Lookout Point Dam**	12/28	0	0.0	0.0	0.0 ^h
Lost Creek Ranch	12/30	21	5.6	3.5	1.3 ^h
Lund Park	12/29	1	0.1 ^g	T	0.0 ^m
Marion Forks	12/29	35	9.1	10.8	4.0 ^h
Marys Peak	c				
Marys Peak (Alt.)	c				
McCredie Springs	12/28	9	3.0	T	0.1
McKenzie	12/30	96	34.2	22.8	17.9 ^h
McKenzie Bridge	12/30	0	0.0	0.0	0.5 ^h
Mill City	12/29	5	0.5	0.0	0.2
Oakridge	12/28	0	0.0	0.0	T ^h
Peavine Ridge	c				
Peavine Ridge Pillow	1/1	-	16.5	- -	- -
Phlox Point	12/22	134	45.1	26.7	20.8
Railroad Overpass	12/28	18	5.0	T	0.5 ^m
Saddle Mountain	12/28	78	19.9	- -	- -
Salt Creek Falls	12/28	46	12.7	9.8	4.6
Santiam Junction	12/29	70	17.8	15.6	7.7 ^h
Siene Creek	12/30	41	10.5	7.9	- -
Still Creek	12/21	68	19.0	11.0	7.1
Still Creek Alt. #2	12/21	67	18.9	- -	- -
Timothy Lake	1/4	47	12.9	13.2	4.0 ^m
Valsetz Summit	1/4	41	13.4	- -	- -
Vida	12/30	0	0.0	0.0	0.2 ^m
Waldo Lake	c				
Weaver Creek	12/29	11	2.2	0.9	0.2 ^m
White Branch Slide	12/30	32	6.8	7.3	2.2 ^h
Whitewater Bridge	12/29	25	6.4	6.0	1.5 ^h
Willamette Pass	c				
Willamette Pass Pillow	No report				
**Known as Meridian Dam.					

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1972

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

ROGUE, UMPQUA WATERSHEDS					
Althouse	c				
Althouse #2	c				
Annie Spring	12/30	80	24.4	29.4	14.9
Beaver Dam Creek	12/31	45	13.5	9.8	4.6 ^m
Big Red Mountain	c				
Billie Creek Divide	12/28	67	20.8	11.3	7.3 ^h
Caliban	c				
Champion	12/29	84	27.1	30.0	7.7 ^h
Cold Springs Camp	c				
Cold Springs Camp Pillow	1/1	-	20.9	20.7	- -
Deadwood Junction	12/31	35	9.6	7.0	3.3 ^h
Diamond-Crater Summit	12/30	72	21.5	17.6	14.0 ^h
Diamond-Crater Sum. Alt.	No report				
Diamond Lake	12/30	50	14.4	9.2	8.2
Fish Lake	12/28	45	12.4	9.6	5.3 ^m
Fourmile Lake	c				
Grayback Peak	c				
Howard Prairie	12/31	28	6.9	7.3	3.2 ^h
Hyatt Prairie	12/31	32	8.9	7.2	3.1 ^h
King Mountain #1	12/28	41	11.8	14.4	- -
King Mountain #2	12/28	31	7.5	8.8	- -
King Mountain #3	12/28	14	3.0	5.9	---
King Mountain #4	12/28	3	0.9	0.0	- -
King Mountain #5	12/28	0	0.0	0.0	- -
King Mountain #6	12/28	T	T	0.0	- -
Little Red Mountain	c				
Mt. Ashland Switchback	c				
Mule Creek	12/28	60	17.9	12.5	- -
North Umpqua	12/28	40	11.5	7.3	6.1 ^h
Page Mountain	c				
Park Headquarters	12/28	107	36.2	35.8	21.6
Red Butte #1	12/27	51	15.5	12.2	4.3 ^h
Red Butte #2	12/27	32	9.0	9.7	0.6 ^h
Red Butte #3	12/27	26	7.2	6.9	- -
Red Butte #4	12/27	16	4.2	2.5	- -
Red Butte #5	12/27	14	3.6	1.9	- -
Red Butte #6	12/27	9	1.8	0.9	- -
Seven Lakes #2	c				
Seven Mile	c				
Silver Burn	12/28	43	11.7	11.4	4.4 ^h
Siskiyou Summit	12/27	27	6.4	11.4	2.4 ^h
Siskiyou Summit Alt. #2	12/27	27	6.9	11.5	- -
Ski Bowl Road	c				
South Fork Canal	12/28	17	4.1	6.0	1.3
Trap Creek	1/5	37	12.0	8.9	4.1 ^h
Whaleback	c				

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

KLAMATH WATERSHEDS					
Annie Spring	12/30	80	24.4	29.4	14.9
Beatty (PP&L)	c				
Billie Creek Divide	12/28	67	20.8	11.3	7.3 ^h
Bly Mountain	DISCONTINUED				
Bly 101 Ranch (PP&L)	c				
Chemult	12/30	27	6.9	6.9	4.1
Chiloquin (PP&L)	c				
Cold Springs Camp	c				
Cold Springs Camp Pillow	1/1	-	20.9	20.7	- -
Crazyman Flat ^e	c				
Crowder Flat ^e (Calif.)	c				
Crystal (PP&L)	12/29	26	7.5	8.2	3.5
Diamond-Crater Summit	12/30	72	21.5	17.6	14.0 ^h
Diamond-Crater Sum. Alt.	No report				
Diamond Lake Jct. (97)	12/30	18	4.3	4.5	2.0 ^h
Dog Hollow ^e	c				
Finley Corrals ^e	c				
Fort Klamath (PP&L)	12/31	15	3.5	3.6	1.3
Fourmile Lake	c				
Gerber	1/3	12	3.0	1.8	1.1 ^h
Harriman (PP&L)	12/31	25	7.5	6.5	1.3
Hyatt Prairie Reservoir	12/31	32	8.9	7.2	3.1 ^h
Kirk (PP&L)	12/31	22	8.0	6.5	2.8 ^m
Lake of the Woods	12/28	37	10.1	6.6	5.1 ^h
Park Headquarters	12/30	107	36.2	35.8	21.6
Pelican Guard Station	DISCONTINUED				
Quartz Mountain	12/29	23	4.1	4.9	2.4
Quartz Mountain (Ext.)	12/29	23	4.5	4.3	- -
Seven Lakes #2	c				
Seven Mile	c				
State Line ^e (Calif.)	c				
Strawberry	c				
Summer Rim	c				
Summer Rim Pillow	c				
Sun Mountain	DISCONTINUED				
Sycan Flat ^e	c				
Taylor Butte	12/28	18	4.7	5.5	2.0 ^h

LAKE COUNTY, GOOSE LAKE WATERSHEDS

Adin Mountain (Calif.)					
Bald Mountain (Nev.)					
Bear Flat Meadow ^e					
Camas Creek	12/30	27	7.2	7.3	3.4 ^m
Cedar Pass (Calif.)					
Colvin Creek ^e					
Cox Flat ^e					
Crowder Flat ^e (Calif.)					
Dismal Swamp ^e (Calif.)					
Finley Corrals ^e					
Hart Mountain ^e					
Little Bally Mtn. ^e (Nev.)					
Mt. Bidwell (Calif.)					
North Star (Calif.)					
Patton Meadows ^e					
Quartz Mountain	12/29	23	4.1	4.9	2.4
Quartz Mountain (Ext.)	12/29	23	4.5	4.3	- -
Sherman Valley ^e					
Silver Creek	12/30	11	2.5	3.1	1.4 ^h
State Line ^e (Calif.)					
Strawberry					
Summer Rim					
Summer Rim Pillow					
Sycan Flat ^e					
Willow Creek ^e					

JANUARY 1, 1972

JANUARY 1, 1972

SNOW		THIS YEAR			PAST REC.		SNOW		THIS YEAR			PAST REC.	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)		DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)			
				Last Yr.	Ave.					Last Yr.	Ave.		
HARNEY BASIN WATERSHEDS													
Blue Mountain Springs	12/28	44	12.1	10.2	5.6 ^h								
Blue Mtn. Springs Pillow*	12/28	-	8.7	5.3	- -								
Buck Pasture ^e	c												
Buckskin Lake ^e	c												
Call Meadows ^e	c												
Delintment Lake	c												
Denio Creek ^e	c												
Disaster Peak (Nev.)	c												
Emigrant Butte	c												
Fish Creek	c												
Fish Creek Pillow*	c												
Hart Mountain ^e	c												
Idlewild Camp	12/27	22	5.7	4.3	1.4								
Idlewild Camp Alt.	12/27	20	6.6	- -	- -								
Izee Summit	12/27	28	6.6	4.9	2.7 ^h								
Lake Creek R.S.	12/28	34	8.6	7.2	3.6 ^h								
Oregon Canyon ^e	c												
Rock Spring	12/29	23	5.2	4.0	1.6								
Silvies ^e	c												
Silvies Pillow*	c												
Snow Mountain	c												
Snow Mountain Pillow*	c												
Starr Ridge	12/29	26	6.4	3.0	2.0 ^h								
Stinking Water	12/29	13	3.0	4.0	1.3 ^h								
Trout Creek ^e													
"V" Lake ^e													
*Manometer reading.													

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

SNOW	THIS YEAR			PAST REC.	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.

report. (c) Not scheduled. (d) Corrected to natural. (f) Nearest current data. (g) Partly estimated. average. (j) Telephonic report - data not confirmed. for 5 or more years in base period.

*Manometer reading.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

JANUARY 1, 1972

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c			
Big Bend (Nev.)	6700	48	16.7	12/27	12.4	13.2	15.4
Blue Mountain Spring	5900	42	16.9	12/29	5.8	10.6	9.1
Crane Prairie	5375	48	18.2	c			
Folly Farm	4450	30	12.5	c			
Jack Creek, Lower (Nev.)	6800	48	8.6	c			
Jordan Valley	4390	48	19.3	b		15.9	14.6
Mud Flat (Ida.)	5500	48	12.8	c			
Rodeo Flat (Nev.)	6800	42	11.0	12/28	6.2	7.4	10.3
Taylor Canyon (Nev.)	6200	48	15.1	12/27	9.4	9.7	13.2
Triangle (Ida.)	5150	48	16.6	c			
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	12/29	8.9	- -	9.2
Dooley Mountain	5430	36	9.2	12/27	6.7	4.2	3.7
Emigrant Springs	3925	48	22.3	12/29	22.3	20.1	17.2
Ladd Summit	3730	48	18.9	12/30	10.0	10.9	9.8
Moss Springs	5850	36	25.8	c			
Tollgate	5070	48	23.6	12/30	15.0	16.4	19.7
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/30	12.2	12.6	11.5
Emigrant Springs	3925	48	22.3	12/29	22.3	20.1	17.2
Tollgate	5070	48	23.6	12/30	15.0	16.4	19.7
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/30	12.2	12.6	11.5
Beech Creek	4800	48	21.3	12/30	8.4	8.7	10.9
Blue Mountain Spring	5900	42	16.9	12/29	5.8	10.6	9.1
Blue Mountain Summit	5100	36	16.8	12/29	8.9	- -	9.2
Derr	5670	24	9.0	c			
Marks Creek	4540	36	14.1	b		10.9	10.2
Snow Mountain	6300	48	16.7	c			
Starr Ridge	5150	36	10.6	12/29	9.0	10.6	8.8
Williams Ranch	4500	42	17.9	12/30	17.7	17.5	16.3
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	c			
Marks Creek	4540	36	14.1	b		10.9	10.2
Snow Mountain	6300	48	16.7	c			
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur	3490	72	26.4	1/3	14.2	14.2	- -
KLAMATH WATERSHEDS							
Bly Mountain	5090	42	14.0	DISCONTINUED			

BASIC DATA SUPPLEMENT 2

JANUARY 1, 1972

SOIL MOISTURE

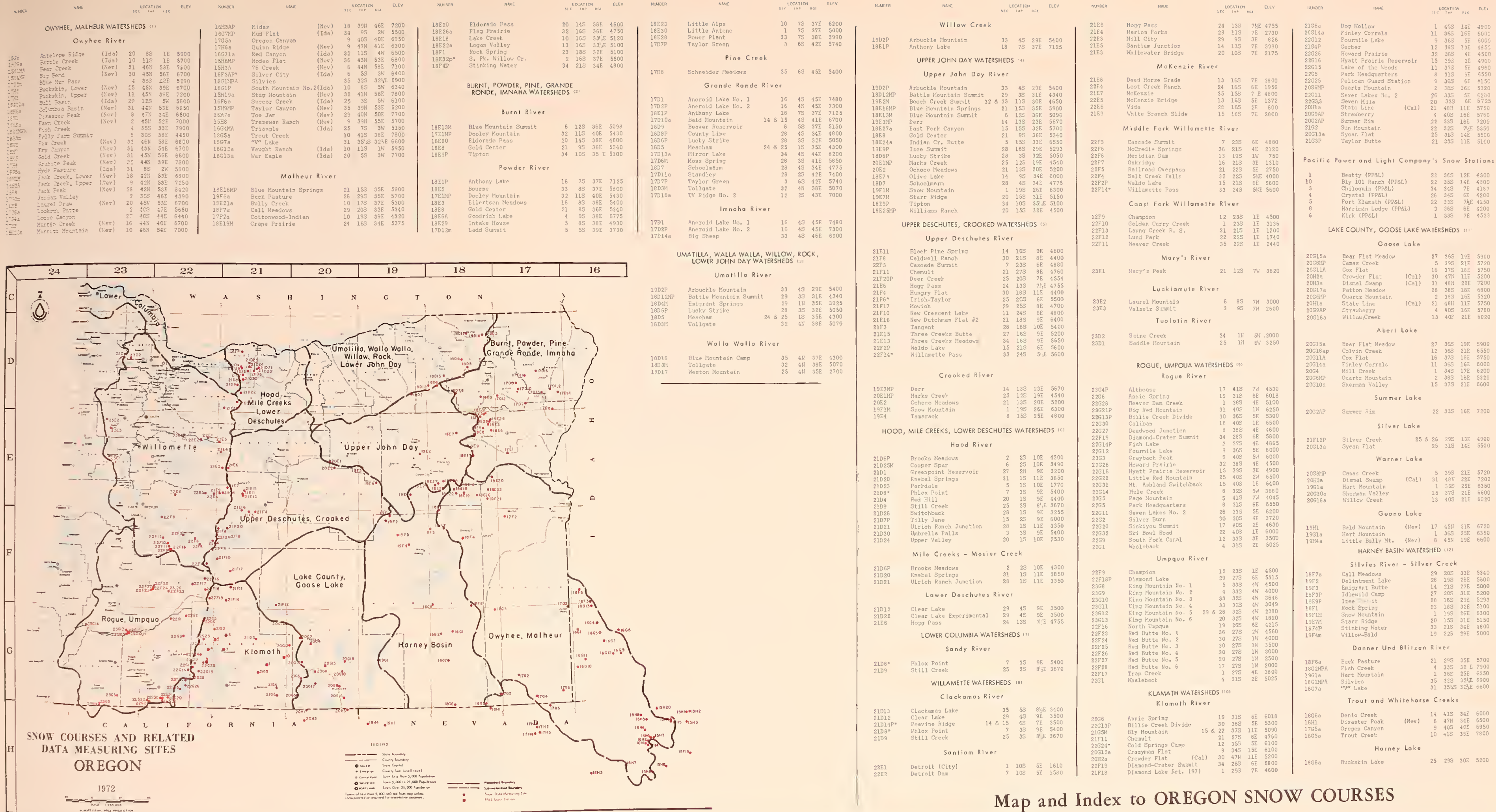
DRAINAGE BASIN and/or STATION		Profile (Inches)			Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity	This Year		Last Year	Average +	
LAKE COUNTY, GOOSE LAKE WATERSHEDS								
Camas Creek	5720	42	14.5	12/30	11.9	12.9	11.9	
Quartz Mountain	5230	48	15.3	12/29	6.8	8.3	8.9	
HARNEY BASIN WATERSHEDS								
Blue Mountain Spring	5900	42	16.9	12/29	5.8	10.6	9.1	
Fish Creek	7900	48	15.0	c				
Folly Farm	4450	30	12.5	c				
Silvies	6900	48	16.4	c				
Snow Mountain	6300	48	16.7	c				
Starr Ridge	5150	36	10.6	12/29	9.0	10.6	8.8	
Willow-Bald	5000	24	6.6	b		6.5	4.7	

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

JANUARY 1, 1972

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The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

COUNTY

- Douglas County Water Resources Survey

FEDERAL

- Department of Agriculture
 - Cooperative Extension Service
 - Forest Service
 - Soil Conservation Service
- Department of Commerce
 - NOAA, National Weather Service
- Department of the Interior
 - Bonneville Power Administration
 - Bureau of Land Management
 - Bureau of Reclamation
 - Fish and Wildlife Service
 - Geological Survey
 - National Park Service
- Department of National Defense
 - Corps of Army Engineers

PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warm Springs Irrigation District

PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon

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